

Serial No. 09/560,170Docket No. 117-P-1345US01

Appendix

Finish 1 - Metal-Crosslinked Acrylic

PHAZER MONOSTAR™ high solids acrylic floor finish (32% nonvolatiles, commercially available from Ecolab Inc.). This is a waterborne zinc-crosslinked acrylic finish, as is the intermediate PADLOCK finish. PHAZER MONOSTAR finish does not provide a polymerized topcoat that is less strippable than the intermediate PADLOCK finish when each is coated alone atop a vinyl composite tile.

Serial No. 09/560.170Docket No. 117-P-1345US01**Finish 2 - UV-Crosslinkable 100% Solids**

This finish was made by combining the following ingredients:

Ingredient	Parts
Hexafunctional aliphatic urethane acrylate ¹	25.0
Multifunctional polyester acrylate ²	25.0
Aliphatic urethane diacrylate ³	22.0
Aliphatic monoacrylate ⁴	10.7
Ethoxylated(20) trimethylolpropane triacrylate ⁵	11.0
Fluorosurfactant ⁶	0.5
Wetting agent ⁷	0.3
Photoinitiator ⁸	2.5
Photoinitiator ⁹	1.5
Benzophenone photoinitiator ¹⁰	1.5

¹ BBECRYL™ 1290, commercially available from UCB Surface Specialties.

² BBECRYL 1810, commercially available from UCB Surface Specialties.

³ BBECRYL 8402, commercially available from UCB Surface Specialties.

⁴ SARTOMER™ CN-130, commercially available from Sartomer Company.

⁵ SARTOMER SR-415, commercially available from Sartomer Company.

⁶ NOVECT™ Fluorosurfactant FC-4430, commercially available from 3M Company.

⁷ BYK™ 307, commercially available from BYK-Chemie.

⁸ DAROCURE™ 1173 2-hydroxy-2-methyl-1-phenyl-1-propanone, commercially available from Ciba Specialty Chemicals.

⁹ VIACURE™ DX, commercially available from UCB Surface Specialties.

¹⁰ IRGACURE™ 184, commercially available from Ciba Specialty Chemicals.

Serial No. 09/560.170Docket No. 117-P-1345US01**Finish 3 - Low Viscosity UV-Crosslinkable 100% Solids**

This finish was made by combining the following ingredients:

Ingredient	Parts
Hexafunctional aliphatic urethane acrylate ¹	13.7
Dipropylene glycol diacrylate ²	80.0
Fluorosurfactant ³	0.5
Wetting agent ⁴	0.3
Photoinitiator ⁵	2.5
Photoinitiator ⁶	1.5
Benzophenone photoinitiator ⁷	1.5

¹ EBECRYL™ 1290, commercially available from UCB Surface Specialties.

² Commercially available from UCB Surface Specialties.

³ NOVECT™ Fluorosurfactant FC-4430, commercially available from 3M Company.

⁴ BYK™ 307, commercially available from BYK-Chemie.

⁵ DAROCURE™ 1173 2-hydroxy-2-methyl-1-phenyl-1-propanone, commercially available from Ciba Specialty Chemicals.

⁶ VIACURE™ DX, commercially available from UCB Surface Specialties.

⁷ IRGACURE™ 184, commercially available from Ciba Specialty Chemicals.

Serial No. 09/560.170Docket No. 117-P-1345US01**Finish 4 - Waterborne UV-Crosslinkable****This finish was made by combining the following ingredients:**

Ingredient	Parts
3.5 Functional acrylate oligomer ¹	34.7
Deionized water	41.0
Ethoxylated(20) trimethylolpropane triacrylate ²	5.0
Hexafunctional aliphatic urethane acrylate ³	5.0
Waterborne UV curable resin ⁴	5.0
Silica emulsion ⁵	3.5
Defoamer ⁶	1.2
Fluorosurfactant ⁷	1.8
Fluorosurfactant ⁸	1.0
Photoinitiator ⁹	1.8

¹ LAROMER™ PE 55WN oligomer, commercially available from BASF Corp.

² SARTOMER SR-415, commercially available from Sartomer Company.

³ EBECRYL 8301, commercially available from UCB Surface Specialties.

⁴ VLAKTIN™ VTE 6177, commercially available from Solutia, Inc.

⁵ KLEBOSOL™ 30N50, commercially available from Clariant Corp.

⁶ PI-35, available from Ultra Additives, Inc.

⁷ NOVEC Fluorosurfactant FC-4430, commercially available from 3M Company.

⁸ ZONYL™ FSJ fluorosurfactant, commercially available from E. I. duPont de Nemours and Co.

⁹ DAROCURE 1173 2-hydroxy-2-methyl-1-phenyl-1-propanone, commercially available from Ciba Specialty Chemicals.

Serial No. 09/560.170Docket No. 117-P-1345US01**Finish 5 – Two-Component Aqueous Polyurethane**

This finish was made by combining the following ingredients in two parts (Part A and Part B), mixing Part A and Part B vigorously for 3 minutes using the indicated mix ratio and then allowing the mixture to stand for 10 to 12 minutes before application:

	Ingredient	Parts by Weight
Part A	Polyester polyol ¹	88.90
	Silicone defoamer ²	0.13
	Surface agent ³	0.06
	Surface agent ⁴	1.16
	Deionized water	9.75
Part B	Hexamethylene diisocyanate ⁵	39.78
	Hydrophilic hexamethylene diisocyanate ⁶	100
Mix Ratios		Parts by weight
	Part A	37.5
	Part B	12.5

¹ BAYHYDROL™ XP-7093, 30% nonvolatiles, Bayer Corporation.

² BYK™ 025, BYK Chemie.

³ BYK™ 348, BYK Chemie.

⁴ BYK™ 380, BYK Chemie.

⁵ DESMODUR™ N-3600, Bayer Corporation.

⁶ BAYHYDUR™ XP-7165, Bayer Corporation.

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Stripper

Ingredient	Parts
Benzyl Alcohol ⁽¹⁾	57.03
Monoethanolamine, 99% ⁽²⁾	22.81
Diethylene glycol monobutyl ether ⁽³⁾	5.703
Dipropylene glycol n-butyl ether ⁽⁴⁾	5.703
Propylene glycol phenyl ether ⁽⁵⁾	5.703
Surface active agent ⁽⁶⁾	1.901
Wetting agent ⁽⁷⁾	0.115
Deionized water	1.035
TOTAL	100

1. Benzyl alcohol, technical grade, commercially available from Velsicol Chemical.
2. Monoethanolamine, 99%, commercially available from Dow Chemical.
3. Diethylene glycol monobutyl ether, 99%, commercially available from Equistar.
4. Dipropylene glycol n-butyl ether, 98.5%, commercially available from Dow Chemical.
5. Propylene glycol phenyl ether, commercially available from Dow Chemical.
6. Linear Alcohol (C12-15) ethoxylate 9 EO, commercially available from Rhodia.
7. ZONYL™ FSJ fluorosurfactant.